APES study guide for Chapters 1 – 3

1. Compare the various types of justification for saving the environment and be able to provide an example of each.

2. Understand the trend or pattern in human population growth over time (see pg.6: A closer look)

3. Know what the Gaia Hypothesis says

4. Differentiate Induction vs Deduction and Precision vs Accuracy (see link on wikipage)

5. Know the steps of the scientific method and recognize examples of the following:

a. observations

b. hypothesis

c. dependent variable (aka: responding variable)

d. independent variable (manipulated variable)

e. control

f. qualitative vs quantitative data

g. theory

6. Be able to compare ART (average residence time) considering different rates of transfer (input and output) and sizes of reservoirs involved (ie: stream vs. river ; pond vs lake or ocean)

7. Compare and be able to recognize examples of open vs. closed systems

8. Compare and be able to identify examples of positive and negative feedback systems

9. Understand key concepts illustrated by the case studies at the opening of each chapter

10. Know what carrying capacity is, and what is the estimated c.c. for humans

11. Know your key vocabulary.